## **Listing of Claims**

The following listing of claims is intended to supercede all previously filed listings of claims. Changes are shown with deletions in strikethrough and additions underlined.

Kindly enter the following amendments to the claims:

Claim 1 (Previously Presented). An apparatus for digitally compensating received radio frequency signals, comprising:

- a first oscillator;
- a downconverter for receiving the received radio frequency signals, the downconverter being driven by the first oscillator and having a mixer;
  - a first frequency monitor adapted to measure the frequency of the first oscillator;
  - a second oscillator;
  - an analog-to-digital converter driven by the second oscillator;
- a digital receiver driven by the second oscillator, the digital receiver having a numerically controlled oscillator;
  - a second frequency monitor adapted to measure the frequency of the second oscillator;
  - a digital demodulator; and
- a computer adapted to receive the frequency measurement of the first oscillator from the first frequency monitor, to receive the frequency measurement of the second oscillator from the second frequency monitor, to calculate the errors of the first oscillator and the second oscillator, and to calculate a numerically controlled oscillator setting based on the calculation of the errors of the first oscillator and the second oscillator;

wherein the numerically controlled oscillator is adapted to receive the numerically controlled oscillator setting from the computer to cause the digital receiver to transmit a signal of a desired frequency to the digital demodulator.

Claim 2 (Previously Presented). An apparatus for digitally compensating transmitted radio frequency signals, comprising:

a first oscillator;

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a digital modulator having a numerically controlled oscillator and a mixer, wherein the

digital modulator and the numerically controlled oscillator are driven by the first oscillator;

a first frequency monitor that is adapted to measure the frequency of the first oscillator;

a digital to analog converter driven by the first oscillator;

a second oscillator;

an upconverter driven by the second oscillator;

a second frequency monitor adapted to measure the frequency of the second oscillator;

a computer adapted to receive the frequency measurement of the first oscillator from the

first frequency monitor, to receive the frequency measurement of the second oscillator from the

second frequency monitor, to calculate the errors of the first oscillator and the second oscillator,

and to calculate a numerically controlled oscillator setting based on the calculation of the errors

of the first oscillator and the second oscillator;

wherein the numerically controlled oscillator is adapted to receive the numerically

controlled oscillator setting from the computer to cause said upconverter to transmit a radio

frequency signal of a desired frequency.

Claim 3 (Previously Presented). The apparatus of claim 1 further comprising:

an antenna, the antenna being electrically coupled to the downconverter.

Claim 4 (Previously Presented). The apparatus of claim 1 wherein the downconverter is

configured to output a frequency band that is configured to contain a plurality of radio channels.

Claim 5 (Previously Presented). The apparatus of claim 1, wherein the digital receiver is

configured to select a radio channel from a plurality of radio channels.

Claim 6 (Previously Presented). The apparatus of claim 1, wherein the radio frequency signals

are GPS signals.

Claim 7 (Previously Presented). The apparatus of claim 2 further comprising:

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an antenna, the antenna being electrically coupled to the upconverter.

Claim 8 (Previously Presented). The apparatus of claim 2, wherein the numerically controlled oscillator is configured to receive a frequency setting from the computer to compensate for inaccuracies of the oscillator.

Claim 9 (Previously Presented). The apparatus of claim 2, wherein the digital modulator is configured to output a digital intermediate frequency to the digital to analog converter, and the digital to analog converter is configured to convert the digital intermediate frequency to an analog signal.

Claim 10 (Previously Presented). The apparatus of claim 2, wherein the upconverter is configured to receive an analog signal from the digital to analog converter, the upconverter being configured to upconvert the analog signal to a desired transmission frequency.

Claim 11 (Previously Presented). The apparatus of claim 2, wherein the radio frequencies are GPS radio frequencies.

Claims 12-22 (Cancelled).